Empowered by Innovation NEC

Professional Installation Projectors

PH Series

\Orchestrating a brighter world

Powerful installation projectors with laser-phosphor light source supports new, demanding projection applications.

Laser Light Module

- 20,000-plus hours of virtually maintenance-free operation
- High-brightness, lower power consumption enhances applications such as retail, digital signage and theme parks
- Ability to control brightness creating a stable image over longer time periods

Integrated and Powerful

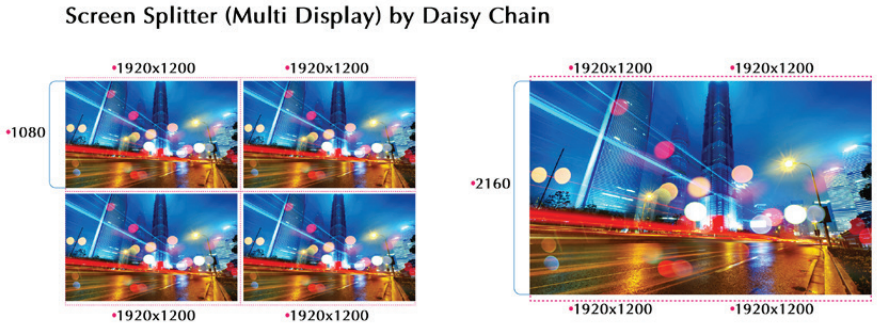
- Project uncompressed FHD video with integrated HDBaseT
- High performance video processing/scaling creates life-like images
- Integrated software applications such as DisplayNote®, Crestron Roomview, AMX Beacon and PJ Link allow for complete interactivity and control
- Tile Matrix enables 4Kx2K resolution

Flexible

- Enjoy greater installation flexibility with a complete line of optional bayonet style lenses (6) for quick and easy exchange. Lens throw distances range from 4.6 to 245.1 ft
- Tilt-free installation capabilities make these projector ideal for almost any install environment, including portrait orientation
- +50%/-5% vertical lens shift and +/- 11% horizontal lens shift capabilities make alignment easy

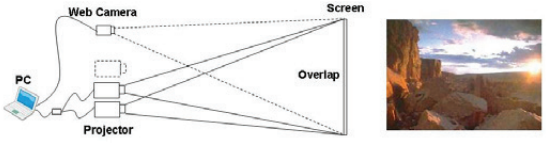
Screen Splitter

NEC is committed to bringing the latest and greatest innovation to projectors. Multi-display capabilities and TileMatrix technologies are integrated into the new PH series projectors. This processing is all done internally and therefore eliminates the additional hardware typically required to produce a beautiful 4K resolution image.



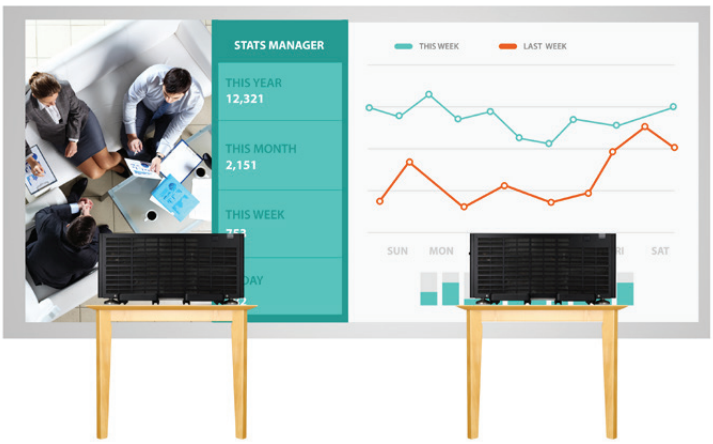
Stacking correction

The industry's first built-in stacking correction capabilities (up to four projectors) allows the projectors to boost an image's brightness up to 48,000 lumens, which is ideal for larger-sized screens and environments with heavy ambient light. This feature also prevents the complete loss of an image, which can happen when using only one projector.



Edge blending

This function seamlessly blends multiple projected images to display a single high-resolution image.



Built-In HDBaseT Support

Simplify your installations with HDBaseT. Optimized for video applications and supporting uncompressed full HD digital video, audio, ethernet, power and various control signals. With only a single cable (up to 100m) to run, infrastructure and labor costs are reduced, installations are significantly easier, and there is no cable clutter to manage. With uncompressed HD video support, images have never been more stunning. What's more, control signals are contained in the same cable.

GET CONNECTED WITH A WIDE SELECTION OF INPUTS

- **Dual computer inputs** ensure quick switching between presentations

Remote control

Wired and wireless backlit remote allows you to adjust for complete control of the projectors menu structure in a well lit or dark environment. Direct controls such as lamp mode, aspect ratio, volume and input selection eliminates multiple button pushes.

DisplayPort

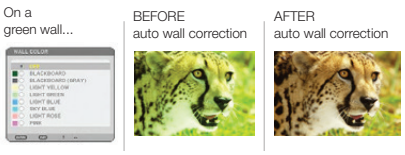
This input provides PH Series models with expanded connectivity with advanced technology.

Super Dust Protection

NEC's patented heat exchanger and the completely sealed optical engine offer continuously best performance in harsh Rental/Staging environment.

Wall color correction presets

These provide for adaptive color tone correction to display properly on non-white surfaces.



ADVANCED SOFTWARE FEATURES

Cornerstone

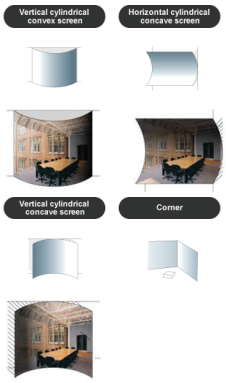
Enhanced keystone correction allows for horizontal, vertical and diagonal image correction for aligned images even when the projector is set up at an angle to the screen.

3D

When combined with active shutter glasses and 3D emitter, the PA Series Projectors create 3D images from a computer or Blu-ray player. The PH1202HL utilizes the 3D sync line output from the projector to connect to the 3D emitter. Optional 3D glasses and emitters from XPAND are available from NEC.

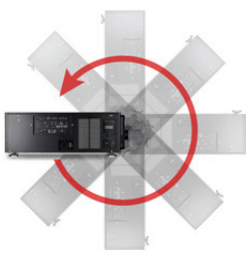
Geometric Correction

Projecting an image isn't confined to a standard flat screen or wall with the NEC PH Series. Geometric correction allows these models to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.



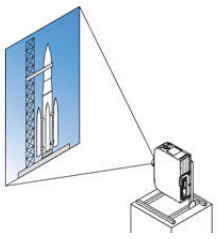
Tilt-free

The projector can be rotated freely (360°) to orient the image depending on the installation requirements



Portrait mode

Allows the projector to be rotated (and screen if necessary) to a vertical alignment so that portrait content can be viewed without black bars on the side when landscape mode is used.



UNIQUE FEATURES

3D Reform™ allows you to square the image by adjusting horizontally, vertically or diagonally when the projector cannot be placed parallel or perpendicular to the screen

Advanced AccuBlend™ ensures detailed images when non-native resolution sources are connected to the projector

AutoSense™ automatically syncs with any computer signal and features one-touch image optimization

64-step image magnification with location control

Discreet source keys for source selection

Remote diagnostics enable the user to monitor and make adjustments to the projector remotely

Built-in HTTP page for control and monitoring over a LAN network. Email notification of error messages or lamp end-of-life can be sent to remote locations.

WARRANTY

Registered owners receive a 3-year parts (excluding consumables) and labor warranty including the first year of InstaCare. InstaCare provides the original owner one year of either limited 3 business day repair/return or next business day exchange.

IN THE BOX

Remote control, batteries, power cord, user's manual on CD-ROM, quick start guide, Lens Hole Cap, warranty Sheet, Security Sticker, Service Door Key

ORDERING MODEL NUMBERS

NP-PH1202HL

Specifications for PH1202HL

OPTICAL	
Display Technology	0.65" DMD
Light Output (lumens)	12,000 normal / Eco = variable
Resolution	
Native	1080p 1920x1080
Maximum	
Analog	WUXGA 1920 x 1200
Digital Quad	WQXGA 4096 x 2160
Contrast Ratio (up to)	10,000:1 with Dynamic Contrast
Laser Life (up to)	20,000 hours
Screen Size (diagonal)	100 to 500 in. / 2.54 to 12.7m
Throw Ratio	
NP-9LS08ZM1 w/ lens memory	0.9 - 1.34:1
NP-9LS12ZM1 w/ lens memory	1.28 - 1.83:1
NP-9LS13ZM1 w/ lens memory	1.42 - 2.24:1
NP-9LS16ZM1 w/ lens memory	1.73 - 2.88:1
NP-9LS20ZM1 w/ lens memory	2.23 - 4.16:1
NP-9LS40ZM1 w/ lens memory	4.43 - 6.76:1
Projection Distance	4.6 to 245.1 ft. / 1.4 to 74.7m
Projection Angle	5.8 to 14.4° tele / 10.9 to 18.4° wide
Lens*	
Zoom	Powered
Zoom Ratio	Variable
Focus	Powered
F-number, f-number	
NP-9LS08ZM1 w/ lens memory	F=2.5 - 3.0, f= 13.3 - 19.9mm
NP-9LS12ZM1 w/ lens memory	F=2.5, f= 18.6 - 26.7mm
NP-9LS13ZM1 w/ lens memory	F=2.5, f= 20.7 - 32.7mm
NP-9LS16ZM1 w/ lens memory	F=2.5, f= 25.2 - 42mm
NP-9LS20ZM1 w/ lens memory	F=2.5, f= 32.2 - 60.3mm
NP-9LS40ZM1 w/ lens memory	F=2.5, f= 62.1 - 97.8mm
Shift	Powered +/- 0.5 vertical, +/-0.11 horizontal
Keystone Correction	+/- 40° horizontal, +/- 40° vertical
SIGNAL COMPATIBILITY/ CONNECTIVITY	
Scan Rate	
Horizontal	15 – 153 kHz
Vertical	24 – 120 Hz
Supported Video Standards	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM
SD/HD Video Signal Compatibility	1080p, 1080i, 720p, 576p, 576i, 480p, 480i
PC Signal Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA
Macintosh Compatibility	Yes
Input/Output Terminals	
RGB1 (analog)	VGA 15-pin D-sub
RGB2 (analog)	5-BNC
RGB3 (digital)	HDMI w/ HDCP
RGB4 (digital)	DisplayPort w/ HDCP
RGB5 (digital)	HDBaseT
Slot2	OPS Option Slot
3D Sync Line	3Pin D
External Control	RS-232, IR, USB
Sync Compatibility	Separate Sync / Composite Sync / Sync on G
ELECTRICAL	
Power Requirements	200 – 240V AC, 50/60Hz
Input Current	9.2A
Power Consumption Normal/Eco1/Eco2/Longlife/ Stand-by(Normal)/Stand-by (HDBaseT™)	1392W / 1110W / 752W / 1291W / 1.83W / 5.7W
MECHANICAL	
Installation Orientation	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
Dimensions (WxDxH)	26.8 x 33.9 x 13.1 in. / 680 x 860 x 333mm
Net Weight	149.9 lbs. / 68 kg
Fan Noise	47 dB normaL
Regulations	USA: UL60950-1 (2) / UL, FCC Part15 Class A / FCC DoC, Canada CSA C22.2 60950-1-07 (2) / C-UL, ICES-003 Class A / DoC of Canada
ENVIRONMENTAL	
Operating Temperature	41° – 104°F / 5° – 40°C
Humidity	20-80% non-condensing
Storage	-14° – 122°F / -10° – 50°C
ACCESSORIES	
NC1100CM	Ceiling mount
NP-9LS08ZM1 w/ lens memory	0.9 - 1.34:1 zoom lens
NP-9LS12ZM1 w/ lens memory	1.28 - 1.83:1 zoom lens
NP-9LS13ZM1 w/ lens memory	1.42 - 2.24:1 zoom lens
NP-9LS16ZM1 w/ lens memory	1.73 - 2.88:1 zoom lens
NP-9LS20ZM1 w/ lens memory	2.23 - 4.16:1 zoom lens
NP-9LS40ZM1 w/ lens memory	4.43 - 6.76:1 zoom lens
RMT-PJ35	Replacement remote control
NP01PW1	Power cable
RGBCBL-PJPX	RGB cable
SB-04HC	3G/HD/SD-SDI input Card
SB-06WC	WiDi / Miracast Media-Player
XPAND X105-RF-1	3D Glasses
XPAND AD025-RF-X1	RF Emitter
N8000-8830	NEC OPS PC with Intel Core i5, 320GB Hard Drive, Windows Embedded Standard 7
N8000-8822	NEC OPS PC with Intel Celeron, 320GB Hard Drive, Windows Embedded Standard 7
NECEW2-I	Extends term of parts and labor warranty to 4 years
ADVEXON1-I	Extends term of InstaCare service program to 2 years
ADVEXON2-I	Extends term of InstaCare service program to 3 years

* Lens does not ship with the projector.
Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit www.necdisplay.com for details.

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